



# SOCOM

## Safety Conference

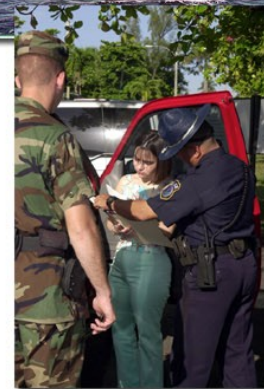
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RADM George Mayer  
Commander  
Naval Safety Center

# NSC Product

Saved Lives and Resources – Force Provider “Saver”



Combat Readiness

# Magnitude of Accidents

## ***In FY05, Navy and Marine Corps Mishaps Resulted In:***

### NAVY

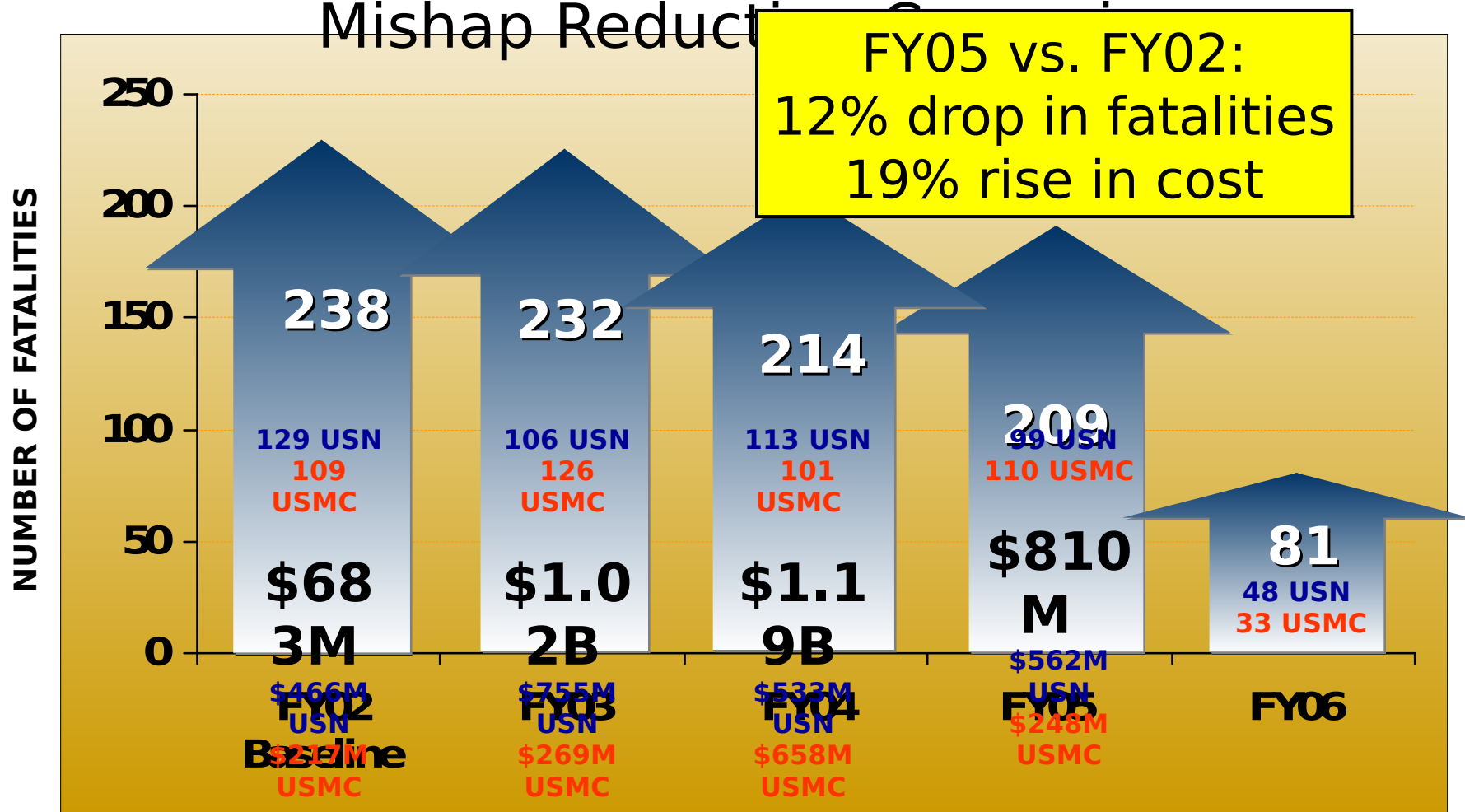
- **1 Navy death every 88 hours (4 days)**
- **1 POV death every 151 hours (6 days)**
- **1 Aviation death every 46 days**
- **1 Aircraft destroyed every 33 days**
- **\$1.22M a day in aviation losses**

### MARINE CORPS

- **1 Marine death every 80 hours (3 days)**
- **1 POV death every 195 hours (8 days)**
- **1 Aviation death every 11 days**
- **1 Aircraft destroyed every 19 days**
- **\$1.63M a day in aviation losses**

# USN/USMC Fatalities & Resources Lost During

## Mishap Reduction Campaign



## ENDSTATE GOAL IS ZERO!

As of 19 Jan 200

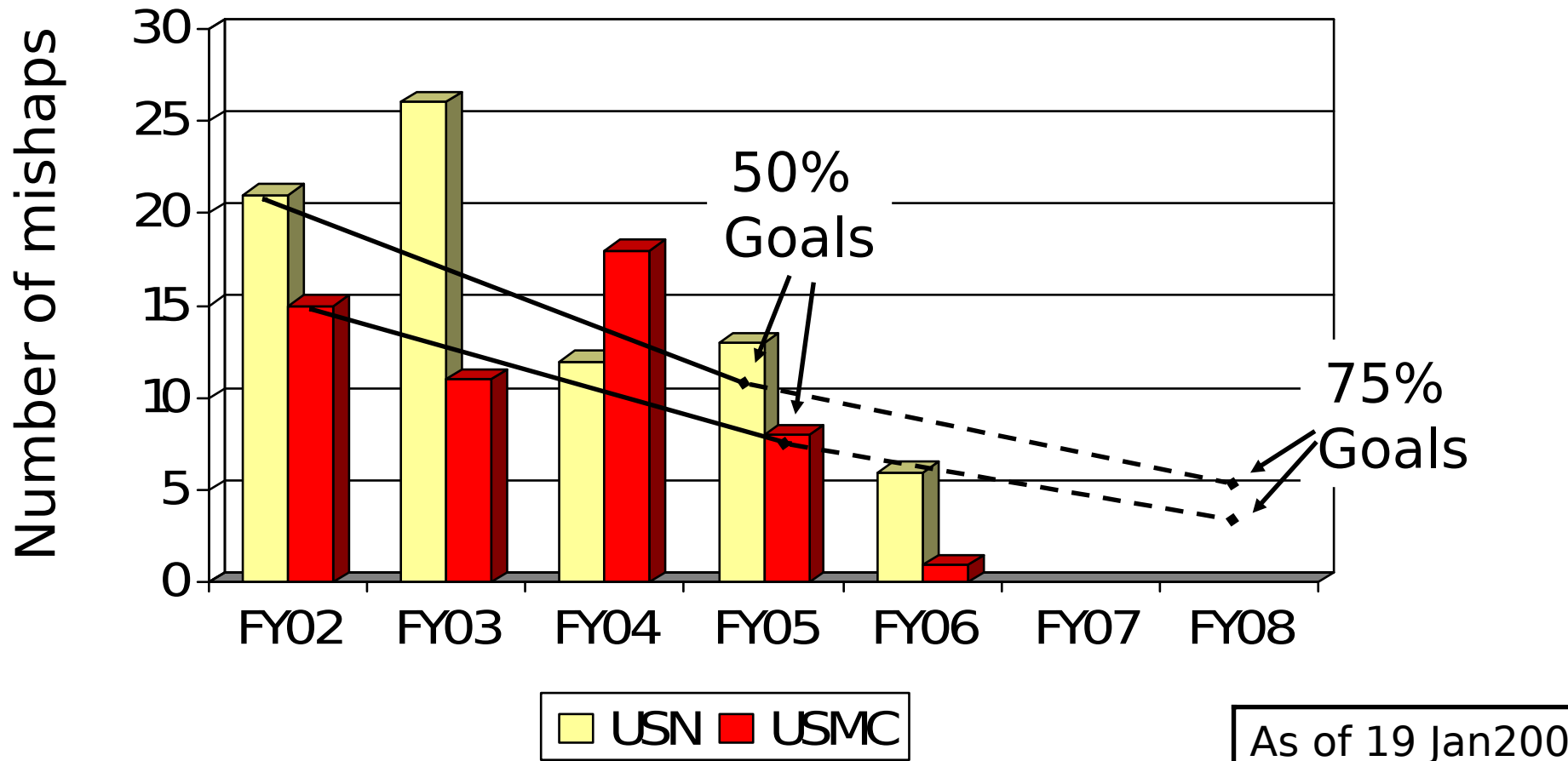




# Class-A Flight Mishaps

## Leading Causal Factors

- **Human Error (89%)**
  - Aircrew (breakdown in Crew Resource Management, poor decision making, failure to properly perform emergency procedures)
  - Supervisory (failure to provide adequate guidance and training)
- **Material/Systems Malfunction (11%)**
  - Material/component catastrophic failure (no human error involved)

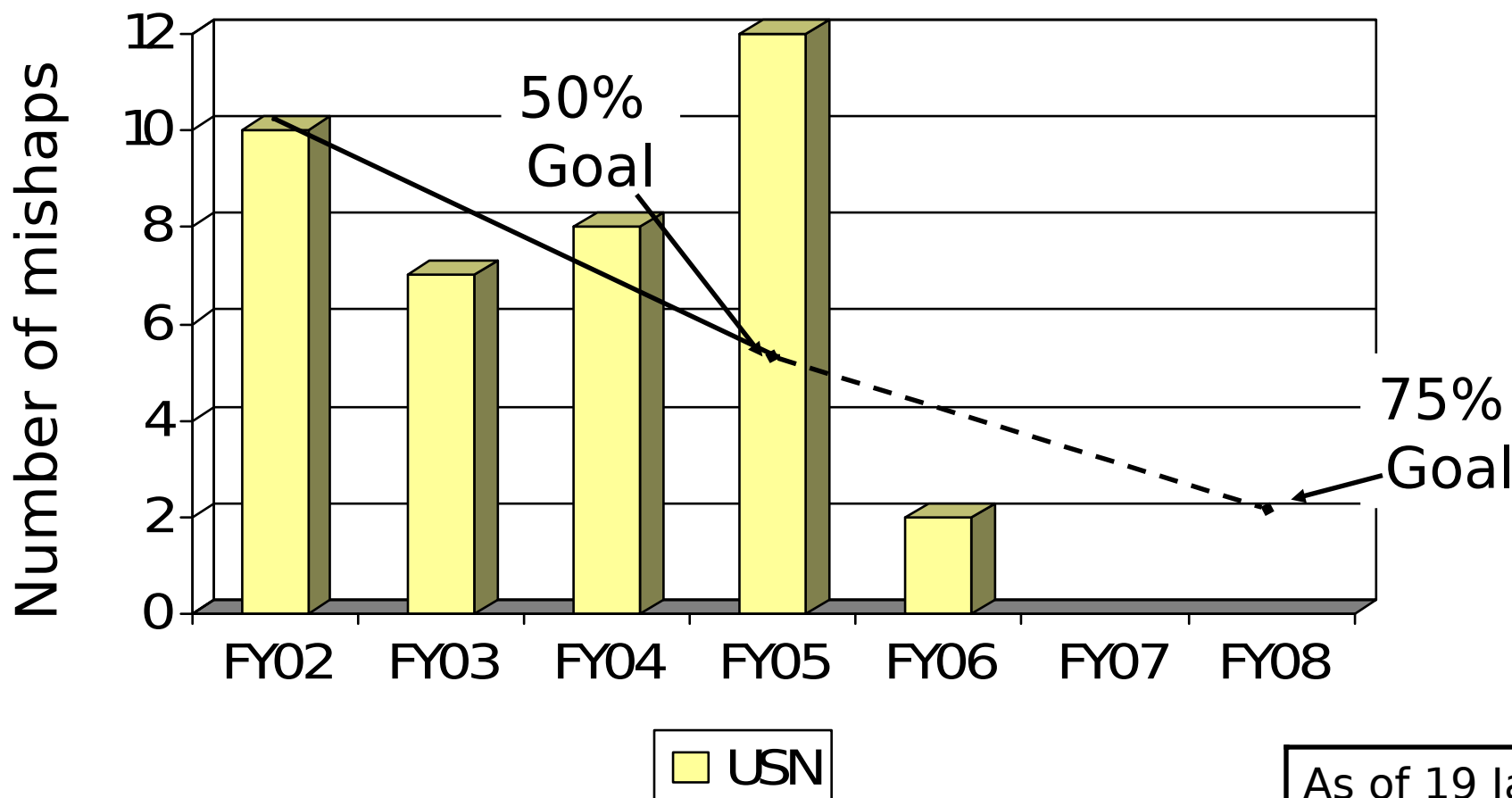


# The Missile Deck



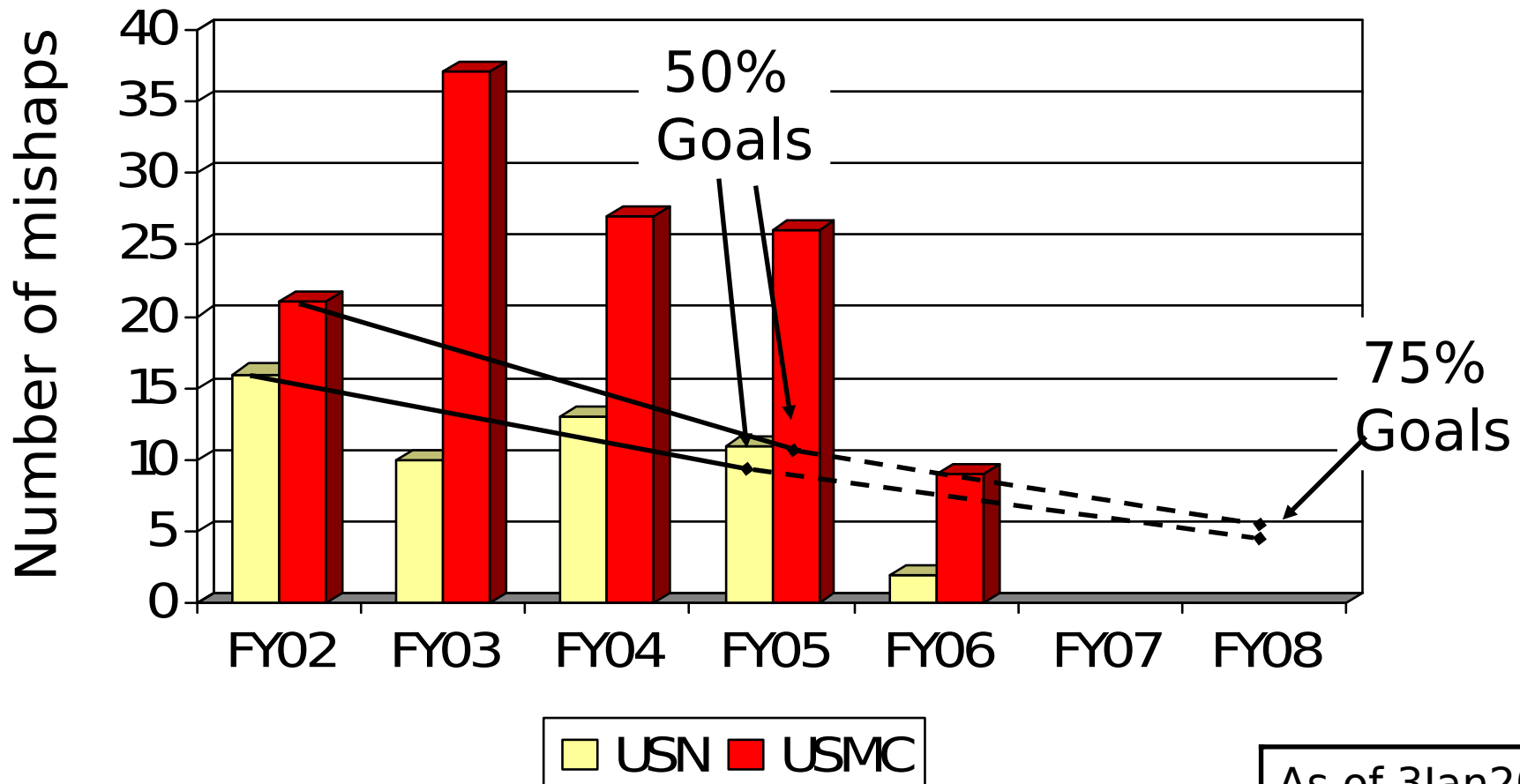
# Afloat Class-A Mishaps

- Leading Causal Factors**
- Inadequate Supervision
  - PMS not accomplished
  - Poor Crew Resource Management
  - Lack of Situational Awareness
  - Complacency



# Shore/Ground Class-A Mishaps (incl MV)

- Leading causal factors
  - Insufficient training for tactical vehicle operation
  - Failure to follow written procedure
  - Negligent firearms discharge
  - Inadequate conditioning prior to PRT



As of 3Jan2006

# PERSPECTIVE

"IN 1968, WE LOST 99 AMERICAN  
SAILORS IN USS SCORPION,  
WHICH WE THINK OF AS  
A NATIONAL DISASTER;  
WHILE WE LOST  
103 SAILORS AND MARINES  
IN PMV ACCIDENTS IN 1998,  
AND CALL IT OUR 'BEST YEAR'!"

ROBERT B. PIRIE

ACTING SECRETARY OF THE NAVY

20 JANUARY - 24 MAY 2001

**WHY DO WE ACCEPT  
ACCIDENTS?**





# PMV Fatalities

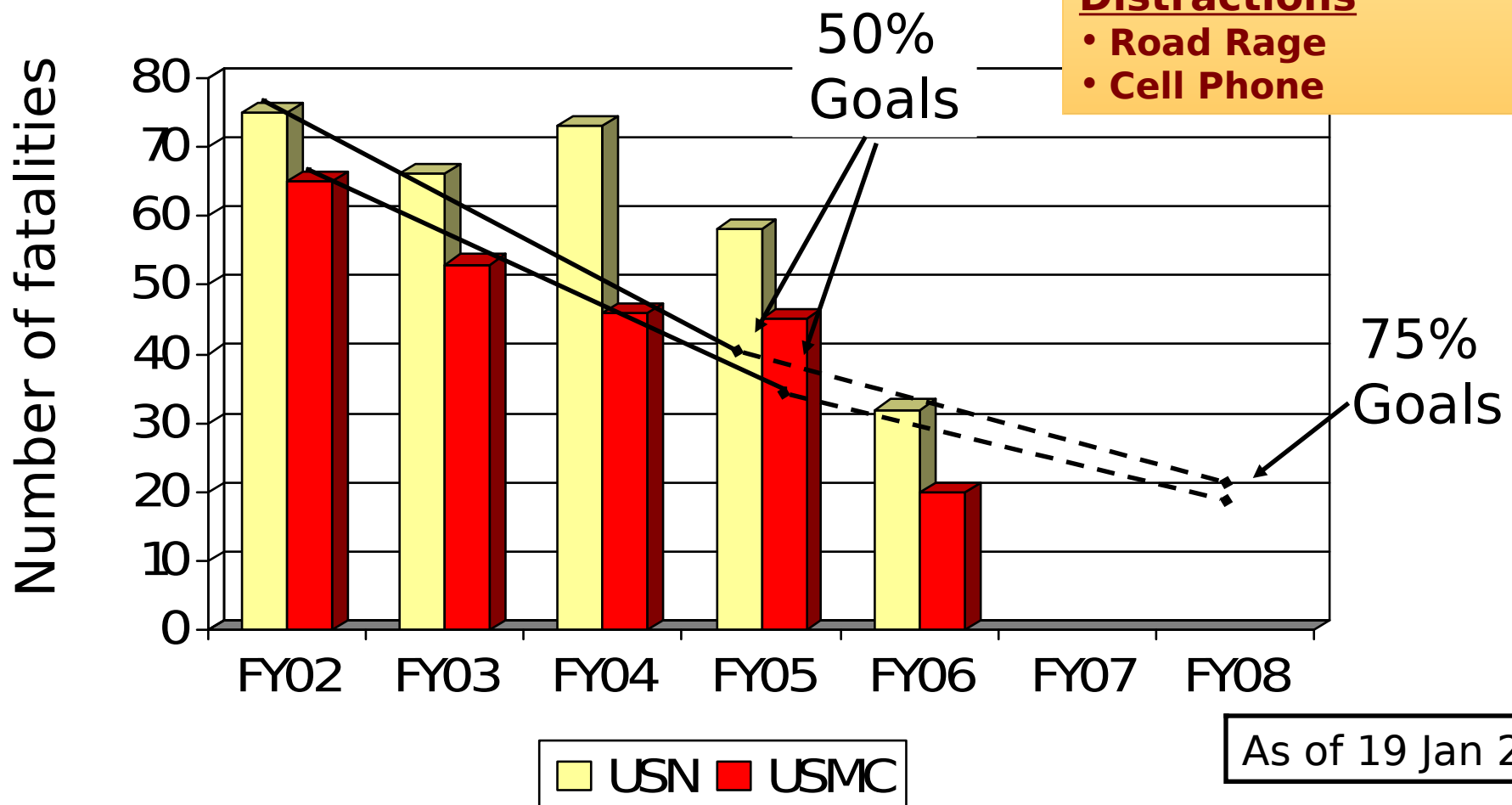
## Leading Causal

### Factors

- Nighttime Driving
- No Seat Belt Use
- Excessive Speed
- Alcohol
- Fatigue

### Distractions

- Road Rage
- Cell Phone





# USN PMV Fatality Summary

13 Jan 06 (C5F/CDS-50) OS1 was killed in a multi-vehicle mishap.  
11 Jan 05 (NSA NEW ORLEANS) BM2 lost control of vehicle, crossed median and was struck by oncoming traffic.  
19 Dec 05 (CNAP/NIMITZ CSG/NIMITZ) EM3 was killed in a multi-vehicle mishap.  
13 Dec 05 (CNAL/AIMD TRUAX FLD CORPUS CHRISTI) AD2 was killed in a motorcycle mishap.  
10 Dec 05 (NETC/NAVSUBSCOL GROTON CT) SA riding as a passenger was killed in a motor vehicle mishap.  
09 Dec 05 (CNSL/JFK CSG/ROOSEVELT) ET3 was killed in a single vehicle mishap.  
09 Dec 05 (CNSL/CMWC/FALCON) CSSN riding as a passenger hit by train while crossing railroad tracks.  
03 Dec 05 (CNAL/ENT CSG/ENTERPRISE) HTFA was killed in a PMV mishap.  
03 Dec 05 (CNE/COMSIXTHFLT) ET1 was killed in a PMV mishap.  
29 Nov 05 (CFFC/1<sup>ST</sup> NCD/NAVAL MOBILE CONSTRUCTION BATTALION SEVEN) EO2 was killed in a motorcycle mishap.  
26 Nov 05 (SUBLANT/SUBGRU TWO/PITTSBURGH) MM3 riding as a passenger was killed in a multi-vehicle mishap.  
23 Nov 05 (SUBLANT/NAVSUBSCOL GROTON CT) SN was killed in a multi-vehicle mishap.  
16 Nov 05 (NAVSEA/NAVY NUC POWER TRNG UNIT BALLSTON SPA) ET3 died in a head-on collision.  
14 Nov 05 (CNAL/HST STRIKED GROUP/HARRY S TRUMAN) IT2 was killed in a multiple vehicle mishap.  
13 Nov 05 (CNI NAVSTA MAYPORT) GM1 was struck and killed by a motor vehicle.  
12 Nov 05 (CNAP/VAQ-129) AMEAN was killed in a motor vehicle mishap.  
11 Nov 05 (CNAL/CHTWL/HM-15) SN lost control of vehicle and struck a concrete wall.  
11 Nov 05 (CNSP/PHIBGRI THREE/OGDEN) IT2 was killed in a motorcycle mishap.  
09 Nov 05 (CNO/NAVCRUITDIST DALLAS) SN was killed when his motorcycle impacted an SUV.  
06 Nov 05 (CNO/NAVIOCOM MEDINA TX) CTI1 driver and CTA3 passenger riding together were killed in a multiple vehicle mishap.  
14 Oct 05 (WEAPONS STATION CHARLESTON) OS2 was killed in a motorcycle mishap.  
13 Oct 05 (CNAL/JCS CSG/STENNIS) ABFC was killed in a single vehicle mishap.  
13 Oct 05 (NAVCENT/NAVCOMTELSTA BAHRAIN) IT1 lost control of motorcycle and hit guardrail.  
13 Oct 05 (CNAL/ENT CSG/ENTERPRISE) ET2 riding as passenger on motorcycle was killed after motorcycle hit a tree.  
09 Oct 05 (CFFC/FLTINFOWARCEN/NAVIOCOM) CTO3 was killed in a head on collision.  
08 Oct 05 (CNE/AIMD SIGONELLA) ATAN on motorcycle collided with civilian truck.  
06 Oct 05 (MARFPCOM/EOD GRU TWO/EOD MU EIGHT) DC2 died after colliding with a truck.

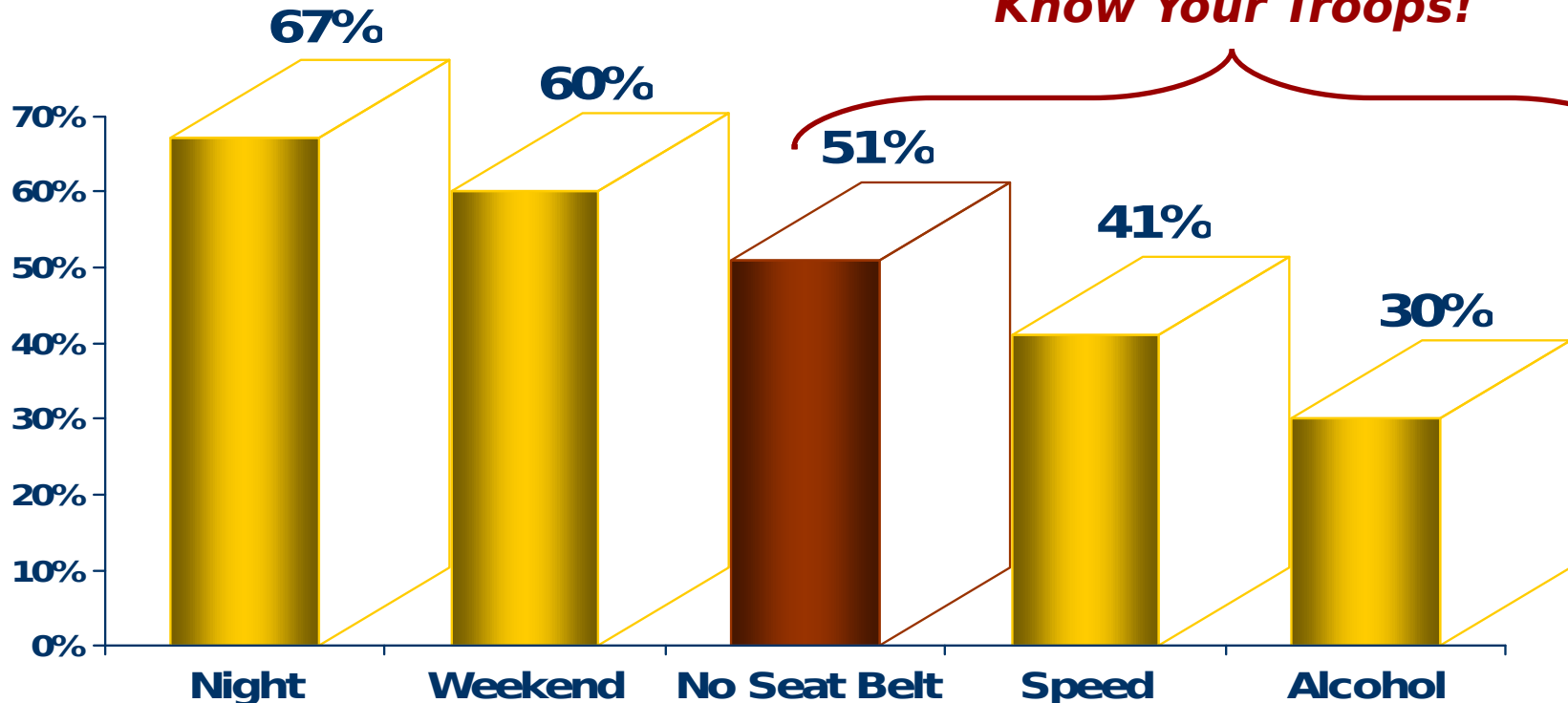
# Awareness is critical at all times



# Leading Factors In Traffic Deaths (FY02-04)

**Fatigue is considered a major factor in traffic deaths, but is under-reported throughout the fleet.**

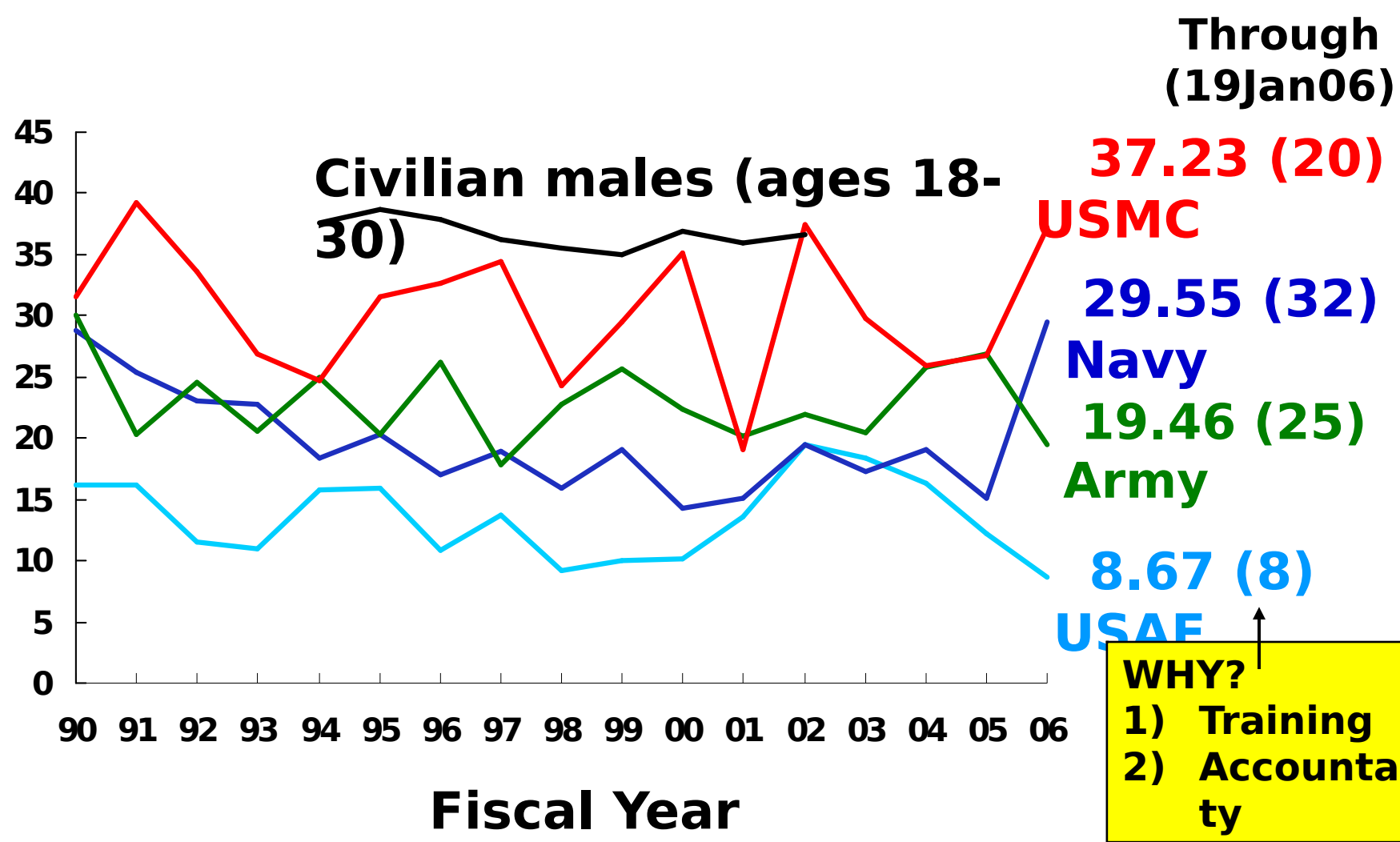
**ENGAGED LEADERSHIP**  
**Know Your Troops!**





# No One Should Die Because They Weren't Wearing A Seatbelt

# Armed Forces Traffic Death Rates (FY90-06)



Rates per 100,000 active duty military personnel per year.

**WHY?**

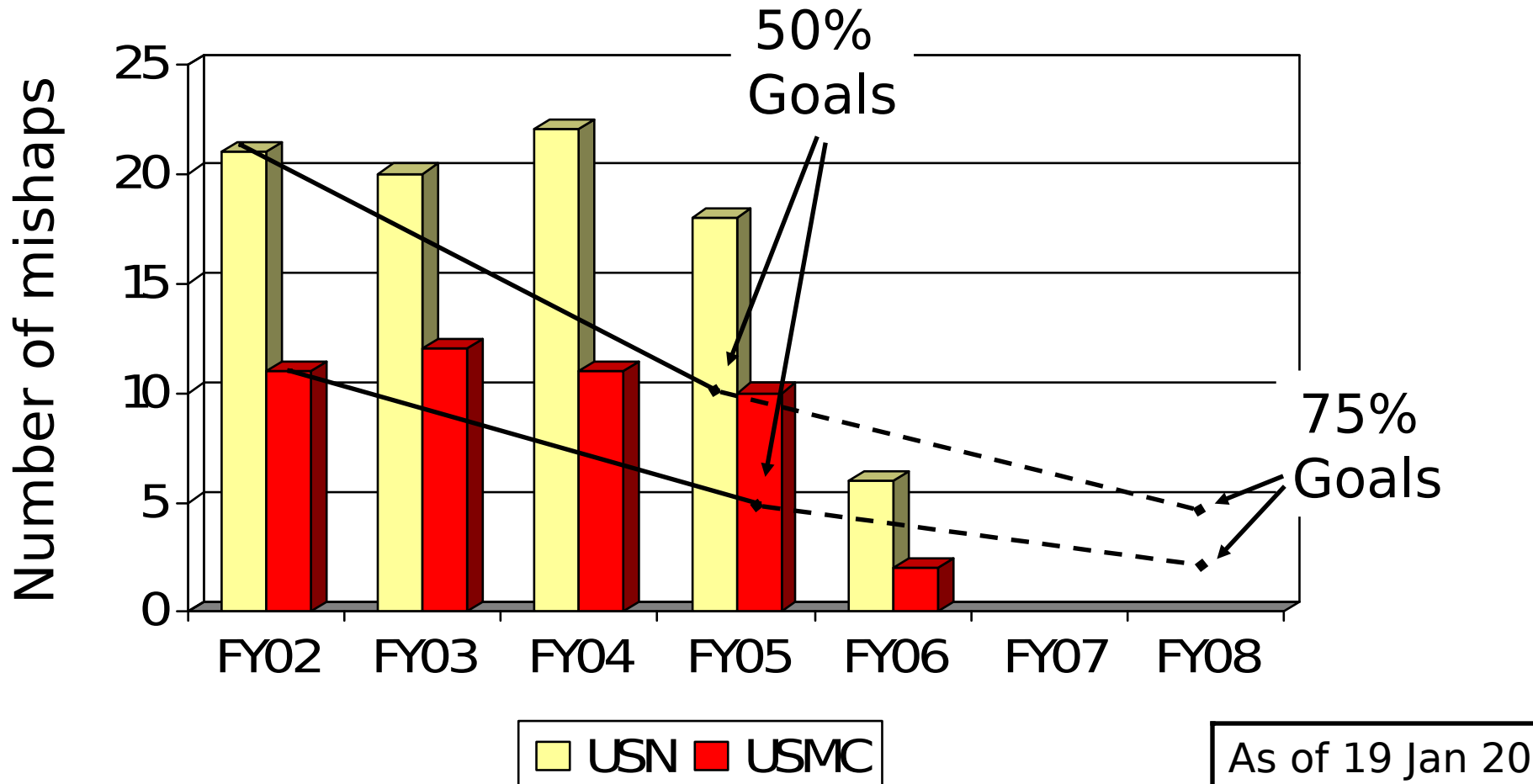
- 1) Training
- 2) Accountability



# Recreation & Off-Duty Fatalities

## Leading Causal Factors

- Inadequate training
- Failure to follow regulations
- Lack of experience at activity
- Command knowledge of High Risk Activities



# Does This Look Like Fun to You?



# What Hazards Exist Here?



Guzer.com

# ORM: Risk Management Not Risk Avoidance

## *Five Steps*

1. Identify Hazards

2. Assess Hazards

3. Make Risk Decisions

4. Implement Controls

5. Supervise

- Easy, common-sense process
- Mind-set
- Way of life – On and Off Duty
- Operating discipline
- Process must be taught
- Must institutionalize ORM – it's not today

YOU CAN'T "ORM" SOMETHING THAT'S STUPID, TO SOMETHING THAT'S SMART!!!

# Effective Use of Risk Management





# THE COMMANDING OFFICER



# What We Do for the Fleet

## Naval Safety Center



Providing aviation, afloat, and shore support  
to Navy and Marine Corps commands



**NSC at your service... for free!**

Let our experience, expertise and unrivaled  
commitment to safety work for you.

**Mishap Investigations**

**Surveys**

**Assist Visits**

**Data Analysis**

**Workshops**

**Publications**

**Website**

**Presentations**

**Exhibits**

Call 757-444-3520 (DSN 564) or visit our website: [www.safetycenter.navy.mil](http://www.safetycenter.navy.mil)

## ON THE ROAD

- Culture workshops
- Unit surveys
- ORM unit training
- Mishap investigations
- USMC MTT seminars
- PCO briefings
- NAVOSHENVTRACEN Safety & Occupational Health Training

## AWARENESS

- Fleet Analysis
- Magazines printed/distributed (473,000 copies)
- Interactive CD's
- Acquisition process in-roads
- Safety advisories
- Customer information requests (3,600+ database queries per month)
- Safety Center web page

# Successful Naval Safety Programs

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- Safety Surveys
  - A “no penalty” review of command’s material safety readiness and safety program compliance
- Culture Workshops
  - Assesses “human” side of safety within command
  - Spreading from aviation community to surface forces
- Online Safety Assessment Surveys
  - Provides commanding officer with overview of command climate
  - Surveys tailored to aviation, surface, and shore commands

# Ongoing Naval Safety Initiatives

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- MFOQA (Military Flight Operations Quality Assurance)
  - Digital record of flight provides improved post-flight analysis by both pilots and maintenance personnel
  - Data link technology provides in-flight analysis of maintenance problems
- ORMAS (Operational Risk Management Assessment System)
  - Test program being developed to utilize existing maintenance and operational data to provide measure of safety climate to command
  - DoD approved Navy development of test system with future goal of applying technology throughout the armed services

# Where We're Going. . .



## 1. **ORM - Safety Training Continuum**

- “Cradle to grave” training for every Sailor
- Partnership with NETC/HPDC in development of 5VM safety curriculum
- Standardize training across USN

## 2. **Driver Improvement Program**

- ID high-risk drivers
- Provide focused training
- Develop driver-training continuum

## 3. **Naval Safety Strategy (DASN(S))**

- POA&M to get us to 75% mishap reduction

# Where We're Going. . .



## 1. Revolution in Training

- Part of “Sea Warrior”
  - Alignment and Total Force
  - Competency Focused
  - Professional/Personal Growth
  - Performance Culture
  - Agile Organization

**Risk Management**

**SEA WARRIOR**

## 2. ORM - Safety Training Continuum

- “Cradle to grave” training for every Sailor
- Partnership with NETC/HPDC in development of 5VM safety curriculum
- Standardize training across USN



# *Our Goal...*



**A MISHAP-FREE  
NAVY+MARINE CORPS**

*Team*



[www.safetycenter.navy.mil](http://www.safetycenter.navy.mil)

## Questions?